30(1)

SOV/25-59-11-24/38

AUTHOR:

Korolevskiy, Yu.P., Engineer

TITLE:

Ultrasound Looks for Fish

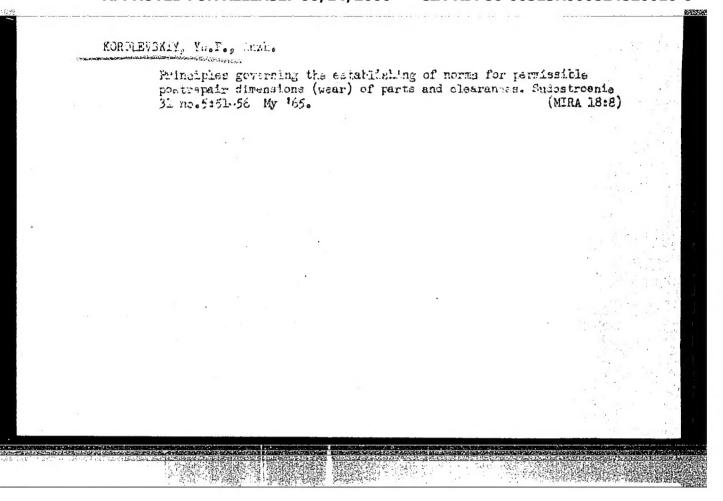
PERIODICAL: Nauka i zhizn', 1959, Nr 11, p 67 (USSR)

ABSTRACT:

The "Okean" trawler put into service last year is equipped with a search apparatus for target catching of fish. A hydrolocator of horizontal tracing and an echo sounding gear are the main fish sweeping devices of the trawler. The principle of their action is the same. The ultrasound signal sent into the water is reflected by the object met and registered on the ship. Small organisms in the water reflect the signal better the higher the frequency is and, consequently, the shorter the radiation waves. There are 4 photographs

and 1 drawing.

Card 1/1



KOROLEVISEV, I.

USSR/Electronics - Receivers

Jul 52

"The Neva-52," I. Korolevtsev, D. Faygenbaum

"Radio" No 7, pp 32-35

The Neva has been produced practically unchanged since 1947. Since mid-1952, a modernized Neva-52 receiver has been produced by the Metal Parts Plant of the Leningrad Div of Local Ind. The receiver has long- and medium-wave bands and the following short-wave bands: 11.4-12 Mc, 9.1-10 Mc, and 3.95-7.5 Mc.

22616

KOROLEVISEV, I.

PA 195T80

UBSR/Radio - Receivers "Metalloisdeliy" Plant

Jul 51

"The Meva Receiver," I. Korolevtsev, D. Faygenbaum

"Radio" No 7, pp 53-55

Since Dec 49, the Leningrad "Metalloizdeliy" Plant has been producing Neva radio receivers. Previously, these receivers were produced by a plant of the Min of Communications Equipment Ind. Describes changes made in the receiver by the "Metalloizdeliy" Plant.

195160

AUTHOR: Korolevtsev, V. M., Graduate Student SOV/154-58-1-5/22

TITLE: New Devices for Precise Base Measurements by Means of

Supporting Wires (Novyye pribory dlya tochnykh bazisnykh

izmereniy podvesnymi provolokami)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeniya i acro-

fotos"yemka, 1958, Nr 1, pp 41-50 (USSR)

ABSTRACT: The majority of those devices that belong to the complete set of instruments for precise base measurements are compli-

cated in their structure and difficult to move and to handle. The goal of many designers was to modernize these instruments. The author of the paper under review reports on some measuring devices designed by him and on the simplification of the entire apparatus. The complete set of instruments proposed by him, which considerably simplifies the entire measuring

process, has already undergone a preliminary test. This showed that the use of this apparatus simplifies, standardizes,

mechanizes and automatizes the process. If precision is increased, also higher efficiency can be achieved. The former clumsiness of the apparatus, as well as the number of devices

Card 1/2 were reduced. The complete measuring set was made easily

307/154-58-1-5/22

New Devices for Precise Base Measurements by Means of Supporting Wires

transportable by considerably reducing its total weight.

There are 12 figures.

ASSOCIATION: Voronezhskiy sel'skokhozyaystvennyy institut

(Voronezh Institute of Agriculture)

Card 2/2

cohnical Conference of the Mills 1 K in o-tokhnicheskaja konferentsija Kills 1 K 1959 K. sehikh uchebnykh zasadeniy. Geodesiya k aerofotos	, pp 144 - 146 (5522)	erov geoderii, aerofesaas of the Madeovii, erov geoderii, aerofesa-yeati i kartografii en Geodevick, aerial Sarvy and Gertographic baid on April 22-24, 1959, with the participa- come, N loctures mere delivered. The intro- me held by Profesor A. Inotor. Candidate and an arrival totared on Tana Out.	Pationical and a second	8 6 8	of Arrors Than Generalisting the Relief in Pr Gradust Student Te, T. Mokhor on "The Intl W Wrot on the Addings of Solutions of Lin ses", Post-gradusts Student W. D. Drogstor se	f Lines. Systems is the Conpensati 1. N. Estableviner dealt with "The O'FATALINGTER PHYSGEORGETY WICH Vertical Maxim. Doctor of Privator	Lind on Candid	. Birdy spie on Thetegramstric Birthod of Millidge of Laminous Glouds". Candidate of M. H. Residenti, reported on The Candidate of The Candidate of the Plane Assistance of the Candidate	dicate of fechnic echnical Sciences T of Pend Type As	Anthe sources	deputation of the garial Caser <u>Constructor</u> - Crashis Chief Termateias of the Georethham to and Taim Belated to Lurge-scale Faboteiu to gorstions belated to Lurge-scale Faboteiu The Frobles Conserved Termatorial Estanom	Scale of 1 : 2500000   Dottor of Technical Probhibenials on "Mineral Deposite in the Journals on Excession Reps   Assistant 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5 : 5	354	of Representation of a Fist Inhabited Terril to Map on the Scale of 1 : 10000°, Candida; successing Interese on Wash of Chitis presented Atlanta of the Origin of the	noce I. I. Meanwhiter dealt with ba. S. Pop tor, Pedagogist (On the 100th Mirhday of miler Jethier 18. Y. Makoyler Bertured offices with Great Luminous Intensive, Prof.	ried on The Problem of Companyating the Wirese of Accuracy is the Manuresent of Phy Gondan Educate Transfer of Phy Wesholds of Measurite Internation Com-	MAD Characterios of Astial Cases Object Coppering Pressure and Tesperature. Engine three on Terrical axis Sparse of Eightpere todollies. Assistant Y. 5, Tespe spoke up	Aid of Telescopes Mith Zone Plates. Fost. Fair of Schinger dealt with "the Amiomation of Rair of Sterescopic Platures". At the Plateil Schinger Sch	The mark of the faithful profession of the faithful of the faithful faithful of the faithful o	The street was the cartographic Buri
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. KOROLEVISEY, V. M., aspirant

Using the method of short-base parallactic traversing with a vertical substance bar. Trudy MIIGAIK no.39:63-81 \*60.

(MIRA 13-8)

1. Kafedra vysshey geodesii Moskovskogo instituta inshenerov geodesii, aerofotos yemki i kartografii.

(Traverses (Surveying))

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820010-6"

#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820010-6

S/270/63/000/001/004/024 A001/A101

AUTHOR:

Korolevtsev, V.

TITLE:

The K-level instrument with a stand and rods of a new design

PERIODICAL: Referativnyy zhurnal, Geodeziya, no. 1, 1963, 21, abstract 1.52.144 ("Nauchn, tr. Voronezhsk. inzh.-stroit. in-t", 1962, no. 9,

255 - 267)

The author describes a dumpy level instrument of the HT - K (NG-K) TEXT: type with a contact level intended for determining elevations between sighting points while conducting leveling of sides in base and polygonometric measurements. The principal technical data of the leveling instrument are as follows: magnification of the sighting telescope is 31 diameter, sight field of the telescope is 10, equivalent focal length of the objective is 314 mm, the least sighting distance is 3 m, coefficient of the range finder is 100, the value of one division of levels: cylindrical 17-25", round 7-15" per 2 mm. The level instrument weighs 2.1 kg, the stand weighs 3.5 kg. Specific features of the NG-K type level instrument are the presence of a special mechanism with an

Card 1/3

The K-level instrument with a stand and...

S/270/63/000/001/004/024 A001/A101

elevation screw for rapid and precision mounting of the telescope sighting axis into horizontal position and the absence of a three-screw base. The stand is made of Duraluminum. Its head represents a cylinder with three cleats for adjoining legs. A chuck is put into the hollow part of the head, and this chuck holds a bush with the lower part of the level instrument axle. Each leg of the level instrument consists of two Dualuminum tubes ending, in their lower part, with sockets and, in their upper part, with telescopic regulating devices by means of which the bubble of the round level is set at the zero-point. Due to the presence of a regulating device, the horizontal level of the instrument can be changed by 100 - 120 mm without changing the position of the stand legs. Investigations have shown that labor efficiency rises by 30% in using NG-K level instruments; the r.m.s. error of elevation determination is equal to 1 mm. Two designs of one-side two-scale rods are proposed for leveling sighting points: transparent and suspended. The former type, 1.5 m long, is manufactured of organic glass or stalinit. One of its scales has black 20-mm divisions, the other is divided into 11-mm divisions of red color. The suspended rod consists of two frames one of which is located within the other. The width of the outer frame is 100 mm, the length is 1.60 m; the corresponding dimensions of the

Card 2/3

The K-level instrument with a stand and ...

S/270/63/000/001/004/024 A001/A101

inner frame are 70 mm and 1.53 m. The rod weighs 2 kg. Both frames are connected by means of hinges. A thin plate of organic glass is placed in the grooves of the inner frame; it has the same divisions as the first rod.

V. Sinyagina

[Abstracter's note: Complete translation]

Card 3/3

# PHASE I BOOK EXPLOITATION

80V/5840

Koroli, Ol'ga Yevgen'yevna, Docent, Candidate of Technical Sciences

Teoreticheskaya mekhanika trayektorii iskusstvennykh sputnikov Zemli; pis mennyye lektsii (Theoretical Mechanics of the Trajectory of Artificial Earth Satellites; Correspondence Courses) Leningrad, 1960. 28 p. Errata slip inserted. 1000 copies printed.

Sponsoring Agency: Ministerstvo vyashegoi srednego spetsial nogo obrazovaniya RSFSR. Severo-zapednyy zaochnyy politekhnicheskiy institut.

PURPOSE: This textbook is intended for students in all divisions and depart-Ed.: T.Gapeyeva. ments of the Severo-zapadnyy zaochnyy politekhnicheskiy institut (Northwestern Polytechnic Correspondence Institute).

COVERAGE: The book discusses certain problems of the theory of motion of artificial Earth satellites. Only the Earth's gravitation is taken into account. Basic information on the motion of a free material point subjected to the Newtonian gravity and on the trajectories of artificial Earth satellites is

Card 1/3

CIA-RDP86-00513R000824820010 APPROVED FOR RELEASE: 06/14/2000

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Theoretical Mechanics (Cont.)	sov/5840	
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16(1); 24(6)

PHASE I BOOK EXPLOITATION

sov/1909

Koroli, O. Ye., Docent, Candidate of Technical Sciences

Pryamolineynoye kolebatel'noye dvizheniye material'noy tochki; pis'mennyye lektsii (Rectilinear Vibrational Motion of a Particle; Correspondence Lectures)
Leningrad, 1958. 61 p. Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Severo-zapadnyy zaochnyy politekhnicheskiy institut.

Ed.: L. Vol'pe.

PURPOSE: This book is intended for home study by mechanical and structural engineers who are engaged in the design of machines or structures in which dynamic stresses caused by vibrations are present.

COVERAGE: The book contains a short presentation of the theory of vibrations, which gives the basic concepts and formulas of free and forced rectilinear vibrational motion of a particle. In connection with the presentation of the theory of forced vibrations of a particle acted upon by hermonic force,

Card 1/4

## APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820010-6

Rectilinear Vibrational Motion (Cont.)

sov/1909

the problem of resonance and the danger to machine parts and structures exposed to the effect of resonance are studied. Conditions necessary for the safe design of machines subject to vibrations are described. The theory is illustrated by examples. No personalities are mentioned. There are no references.

#### TABLE OF CONTENTS:

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Lecture 1. Harmonic Vibrations of a Point Acted Upon by a Force Which is Proportional to the Distance, Amplitude, Phase, Frequency, and Period of These Vibrations 1. Harmonic vibrations 2. The period, frequency, amplitude, and phase of harmonic vibrations	5 5 9
Questions for Self-testing	12
Problems on Harmonic Vibrations	12
Lecture 2. Damping Vibrations of a Point Under the Linear Law of Resistance of a Medium; Period and Decrement of These Vibrations 3. Damping vibrations of a point under the linear law of the resistance of a medium 4. The period and decrement of damping vibrations	20 20 24

Card 2/4

Rectilinear Vibrational Motion (Cont.)

Questions for Self-testing

Problems on Forced Vibrations Taking Into Account the Resisting Force

AVAILABLE: Library of Congress (QA935.K835)

Card 4/4

IK/mas
8-20-59

KOROLI, Cl'ga Yevgen'yevna, dotsent, kand.tekhn.nauk; GAPEYEVA, T., red.

[Theoretical mechanics; trafectories of artificial earth satellites; correspondence course] Teoreticheskaia mekhanika; traektorii iskusstvennykh sputnikov Zemli; pis'mennye lektsii. Leningrad, Severo-zapadnyi zaochnyi politekhn.in-t, 1960. 28 p.

(MIRA 14:6)

(Artificial satellites)

#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820010-6

KOROLIEWA, N.; MURAZJAN, A.

Medical care of industrial workers. Zdrovie pub., Warszawa no.6:425-429 Nov-Dec 54.

 Z Oddzialu opieki nad robotnikami przemyslawymi Ministeratwa zdrowia ZSRR - Maczelnik oddziały N.Koroliewa (INDUSTRIAL HYGIEME in Russia)

ANDREJEVIC, Mihailo; KOROLIJA, Petar; STANKOVIC, Sotir

Contribution to the study on clinical aspects of primary carcinoma of the gallbladder. Srpski arh. celok. lek. 90 no.3:229-235 Mr 162.

1. Interno odeljenje Gradske bolnice u Beogradu Sef: prof. dr Mihailo Andrejevic.

(GALLBLADDER neopl)

KORCLIJA, Petar; STANKOVIC, Sotir; ANDROJEVIC, Hihaile

Clinical picture and biological changes in primary liver cancer. Srpski ark. celok. lek. 91 no.12:1165-1173 D 163.

l. Interno odeljenje Gradske bolnice u Beogradu (Sef: prof. dr. Mihailo Andrejevic).

ANDREJEVIC, Mihailo; KOROLIJA, Petar; STAMENKOVIC, Jelena

Value of Ascoli's and Jirgl's test in the differential diagnosis of malignant and benign obstructive jaundice. Srpski arh. celok. lek. 92 no.42401-406 Ap '64

1. Interna nastavna baza Medicinskog fakulteta Gradska bolnica u Beogradu (Upravnik: prof. dr. Mihailo Andrejevic) i Laboratorijski odsek Gradske bolnice u Beogradu (Nacelnik: dr.R.Petrovic).

ANDREJEVIC, Mihailo; KOROLIJA, Petar

A case of acute thrombosis of the axillary artery of allergic etiology. Srpski arh. celok. 1ek. 92 no.7:793-795 J1-Ag '64

l. Interno odeljenje Gradske bolnice u Beogradu (Upravnik: prof. dr. Mihailo Andrejevic).

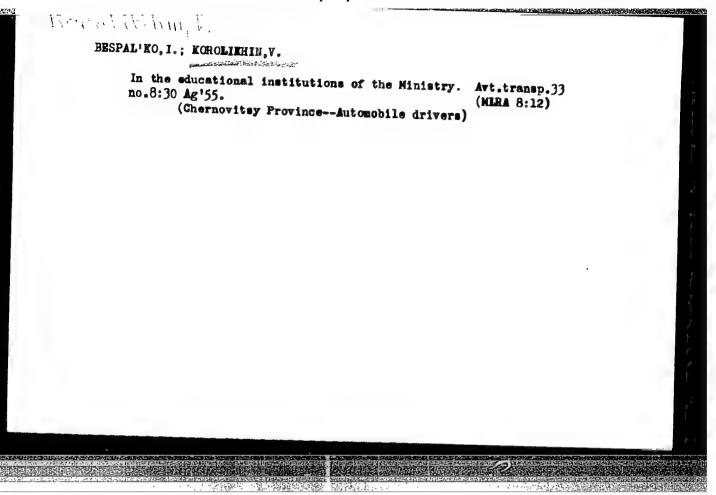
#### YUGOSLAVIA

ANDREJEVIC, Mihailo, Dr., prof., STANKOVIC, Sotir, Dr., STEVANOVIC, Milan, Dr., KOROLIJA, Petar, Dr.; Department of Internal Medicine of the City Hospital, Belgrade (Interno odelenje Gradske bolnice u Beogradu) (Head: ANDREJEVIC, Mihailo, Dr., prof.), Belgrade. "Influence of Bismuth Therapy on the Acidity and Pepsin of Ulcer Patients"

Belgrade, Medicinski Glasnik, Vol 19, No 11-12, Nov-Dec 1965, pp 316-318

Abstract: Bismuth-subnitrate causes subjective improvement of difficulties in 85,5% of cases. The value of acidity after therapy decreases in 2/3 of the patients and pepsin in one-half of them. This difference is the result of the weaker effect of bismuth therapy on pepsin; on the creation of proteolysis. With regard to the eventual effect of bismuth-subnitrate, the administration of the bismuth-subcarbonicum should be decided upon and therapy should be extended. Effect of bismuth treatment on anacid ulcers is shown more in the absence of the irritation factor of food than in connection with pepsin. No references.

1/1



## YOLKOV, S.V., KOROLIKHIN, V.V.

Dissolving renal calculi. The possibility of using trilon B as a chemical solvent; experimental study. Urologiia no.5:38-43 '62.

1. Iz Gor'kovskoy gorodskoy klinicheskoy bol'nitsy No.5 (glavnyy vrach N.L. Pyatnitskiy).
(CALCULI, URINARY) (ACETIC ACID)

KOROLIKOV, A.

29848

Uchyet zatrat na tyekhnichyeskoye obsluzhivaniyg l ryemont kazhdogo avtomobilya. Automobil; 1949, s. 12

SO: LETOPIS! NO. 40

KOROLINSKAYA, V. N., Cand of Med Sci -- (diss) "Hymen Lepidosis and Lambliais During Chronic Dysentery in Children, " Moscow, 1959, 14 pp (Academy of Medical Sciences, USSR) (KL, 7-60, 110)

ANDREJEVIC, Mihajlo, dr., prof.; STANKOVIC, Sotir; KOROLIJA, Petar; MADIC, Radmila

Contribution to the clinical picture of pleural epithelioma. Srpski arh. celok. lek. 89 no.1:5-11 Ja 161.

1. Interno odeljenje Gradske bolnice u Beogradu. Sef: prof. dr Mihajlo Andrejevic.

(PLEURA neop1) (CARCINOMA BRONCHOGENIC case reports)

S/058/63/000/003/028/104 A062/A101

AUTHORS:

Kaplan, S. A., Koval'chuk, V. G., Korolishin, V. M.

TITLE:

Coefficients of electric conductivity and diffusion in relativistic

one-component plasma

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 3, 1963, 19, abstract 30113 ("Visnyk L'vivs'k. un-tu. Ser. fiz.", 1962, no. 1(8), 79 - 82,

Ukrainian)

A method is given for computing the coefficients of diffusion and electric conductivity in a relativistic one-component plasma in the presence of electric and magnetic fields. Expressions for the components of the "fourdimensional velocity" of the particles are averaged, for the cases of parallel and perpendicular electric and magnetic fields, by means of the distribution function in the zero approximation. Transfer coefficient is obtained in the presence of an electric field and the gradient of concentration of the particle. For a relativistic plasma, at a power exponent of the particle spectrum  $\gamma=2$ , the diffusion coefficient is inversely proportional to the intensity of the [Abstracter's note: Complete translation] Yu. Mordvinov Card 1/1

MYZENKO, D.K., inzh.; POMAZUYEV, V.M., inzh.; MIRONCHIK, M.S., inzh.; KOROL'KEVICH, L.Yu., inzh.

Purification of blast furnace gas without electrostatic filters. Stal! 20 no. 7:667-670 Jl !60. (MIRA 14:5)

.1. Chelyabinskiy metallurgicheskiy zavod. (Gases—Purification)

· 中华人民共和国的 计可能编码 医电影 医电影 (1995年) (199

#### "APPROVED FOR RELEASE: 06/14/2000

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ACCESSION NR: AP5022361

UR/0115/65/000/007/0058/0060

681.118.2

AUTHOR: Kirsa, V. I.; Korol'kevich, V. I.

TITLE: A transistorized electronic tachometer

SOURCE: Izmeritel'naya tekhnika, no. 7, 1965, 58-60

TOPIC TAGS: tachometer, transistorized circuit, electronic measurement

ABSTRACT: The authors describe an electronic transistorized tachometer developed at the Laboratory of Measuring Technology, Ukrainian Affiliate of the State All-Union Technological Scientific Research Institute for the Repair and Utilization of Tractors and Agricultural Machinery. The instrument is designed for measuring the number of revolutions of the camshaft on a fuel pump. This tachometer has five measurement ranges:  $0-50\pi$ ;  $0-16.7\pi$ ;  $16.7\pi-25\pi$ ;  $25\pi-33.3\pi$  and  $33.3\pi-50\pi$  radians per second. The first range is a scanning range for deciding the limits of measurement required, after which the instrument is set to the appropriate one of the other four ranges for more accurate determination of the number of revolutions. A schematic diagram of the instrument is given and the principles of operation and design

Card 1/2

## "APPROVED FOR RELEASE: 06/14/2000

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KOROLKIEWICZ, Z.; TEUCHMANN, J.

Effect on the so-called central and preipheral fever. Studies on the effect of physostigmine, largactil and reservine. Acta physicl.polon. 11 no.5/6:781-782 '60.

1. Z Zakladu Farmakologii A.M. w Gdansku, Kierownik: prof.dr J.K. Teuchmann.

(FEVER exper)
(PHYSOSTIGMINE pharmacol)
(CHLORPROMAZINE pharmacol)
(RESERPINE pharmacol)

TEUCHMANN, Jan Karol; KOROLKIEWICZ, Zbigniew; WIGLUSZ, Zdzislawa

The section will be made processed and section of the section of t

Comparative pharmacodynamic studies on long-acting sulfamethoxypyridazine-sulfonamide. Polski tygod.lek. 15 no.42:1593-1598 17 0 '60.

1. Z Zakladu Farmakologii A.M. w Gdansku; kierownik: prof.dr med. J.K. Teuchmann. (SULFAMETHOXYPYRIDAZINE pharmacol)

175

TEUCHMANN, Jan Karol; KOROLKIEWICZ, Zbigniew; KUCHCINSKI, Wladyslaw

Comparative studies on the properties of sulfamethoxypyridazine and other prolonged action sulfonamides. Polski tygod.lek. 15 no.51: 1958-1962 19 D \*60.

1. Z Zakladu Farmakologii A.M. w Gdansku; kierownik: prof. dr med. J.K. Teuchmann. (SULFAMETHOXYPYRIDAZINE pharmacol)

KOROLKIEWICZ, Zbigniew; TEUCHMANN, Jan Karol

Studies on so-called central and peripheral fevers. Studies on the effect of physostigmine, largactil and reserpine. Acta physiol pol 12 no.2:219-229 '61.

1. Z Zakladu Farmakologii A.M. w Gdansku Kierownik: prof. dr J.K. Teuchmann.

(FEVER exper) (PHYSOSTIGMINE pharmacol)
(CHLORPROMAZINE pharmacol) (RESERPINE pharmacol)

#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820010-6

SUILLE, LYON NAMES

Country:

Poland

Academie Degrees:

Institute of Pharmacology of the Medical Academy (Zaklad

Affi . Tation:

Farmakologii, Akademia Medyczna), Gdansk; Director (Kierownik):

Prof Dr Med J K Teuchmann

Scurce:

Krakow, Przeglad Lekarski, Vol XVII, Ser II, No 10, 1961,

pp 370-373

Data:

"Experimental Investigations of the Mechanism of Action

of Experimental Feber in Anaphylactic Shock."

Authors:

TEUCHMANN, Jan Karol, Prof Dr Med

/KOROLKIEWICZ, Zbigniew [Academic Degrees not given]

SON APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820010-

Country:

Poland

Academic Degrees: [not given]

Department of Pharmacology of the Academy of Medicine (Zaklad

Affiliation: Farmakologii Akademii Medycznej), Gdansk

Source:

Warsaw, Farmacja Polska, Vol XVII, No 18, 25 September 1961,

pp 382-383

Date:

"Comparative Investigations of Certain Properties of

Sulfonamides With Prolonged Action."

Authors:

TEUCHMANN, Jan Karol KOROLKIEWICZ, Zbigniew KUCHCINSKI, Tladyslaw WILGUSZ, Zdzislawa

TEUCHMAN, Jan Karol, prof.dr. med.; KOROLKIEWICZ, Zbigniew; KUCHCINSKI, Wladyslaw; WILGUSZ, Zdzislawa

Comparative research on certain properties of sulphonamides with extended effect. Farmacja Pol 16 no.18:382-383 S '61.

1. Zaklad Farmakologii, Akademia Medyczna, Gdansk. Kierownik: prof.dr.med J.K. Teuchmann.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820010-6"

# KOROLKIEWICZ, Zbigniew

Studies on the mechanism of action of some drugs on the so-called peripheral and central fevers. Acta physiol. polon. 13 no.5:651-662

1. Z Zakladu Farmakologii AM w Gdansku Kierownik: prof. dr J.K. Teuchmann.

(FEVER) (PYROGENS) (EPINEPHRINE) (RESERVINE) (SODIUM SALICYLATE) (NITROPHENOLS) (ANALGESICS AND ANTIPYRETICS)

## KOROLKO, Andrzej: GORNY, Dionisy

2 cases of paralysis of the respiratory center after the administration of palfium. Polski tygod.lek. 16 no.5:180-182 30 Ja 161.

1. Z I Kliniki Chorob Wewnetrsnych A.M. w Lublinie; kierownik: prof. dr med. Miecsyslaw Kedra i z II Kliniki Chirurgicznej A.M. w Lublinie; kierownik: prof. dr med. Feliks Skubiszewski.

(ANALGESICS AND ANTIPYRETICS toxicol)

(RESPIRATION)

## KEDRA, Mieczyslaw; KOROLKO, Andrzej

THE THE STATE OF T

Behavior of Skibinski's circulatory-respiratory coefficient in pulmonary and cardiac diseases. Polski tygod. lek. 16 no.36:1383-1389 4 S '61.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Lublinie; kierownik: prof. dr med. Mieczyslaw Kedra.

(LUNG DISEASES diag) (HEART DISEASES diag)

KOROLKO, Andrzej; SMAJKIEWICZ, Ludwik

A case of abscess of the anterior mediastinum following dental infection. Polski tygod. lek. 16 no.49:1899-1901 4 D '61.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Lublinie; kierownik: prof dr med. Mieczyslaw Kedra i z Zakladu Radiologii A.M. w Lublinie; kierownik: z-ca prof. dr med. Kazimierz Skorzynski. (MEDIASTINUM dis) (AESCESS etiol) (TEETH dis)

ROBOLKO, Andraoj; MOLZELEWSKI, Januaz

Frimary megaesophagus. Pol. tyg. 1ek. 19 no.33:1286-1287

l. Z I Kliniki Chorob Wewnetrznych Akademii Medycznej w Lublinie (kicrownik: prof. dr mod. Mieczyslaw Kedra) i ze Szpitala Wojskowego w Lublinie.

Wertov, I.M., kandidat tekhnicheskikh nauk; KOROL'KO, S.A., kandidat tekhnicheskikh nauk, retsensent; RUSINOV, I.Ta., Kandidat tekhnicheskikh nauk, retsensent.

[Snowplows] Snegocohistiteli. Moskva, Gos. nauchno-tekhn. ind-vo mashinostroit. i sudostroit. lit-ry, 1954. 142 p. (MIRA 719)

(Snow plows)

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Spontaneous recovery of cattle from paratuberculous enterities. Veterinariia 36 no.6:32 Je \*59. (MIRA 12:10)

1. Glavnyy veterinarnyy vrach Khar kovakogo sakhaveklotresta. (Cattle-Diseases and pests)

KOROL'KO, Ye.I., insh.

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(Boring)

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- 2. USSR (600)
- 4. Turinsk District Copper Ores
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[Geology of the Northern Sos va brown coal basin.] Geologiia Severesos vinskogo burougol nogo basseina. Moskva, Nedra, 1964. 144p. (Materialy po geologii i peleznym iskopaemym Urala, no.11)

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Results of crossbreeding of Kabardian horses with purebred saddle horses, Konevodstvo. No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1956, Uncl.

KOROL'KOV, A. G.

Horse Breeding

Production index according to periods of foaling in field conditions. Konevodstvo 22 No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1951, Uncl.

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MIZINOV, V.N.; BASH, M.S.; BRONSHTEYN, L.A.; POLCHANINOV,
P.V.; VERKHOVSKIY, I.A.; KOROL'KOV, A.I.; GERONIMUS, B.L.;
STRYZHKOVA, N.I., red.; GALAKTIONOVA, Ye.N., tekhn. red.

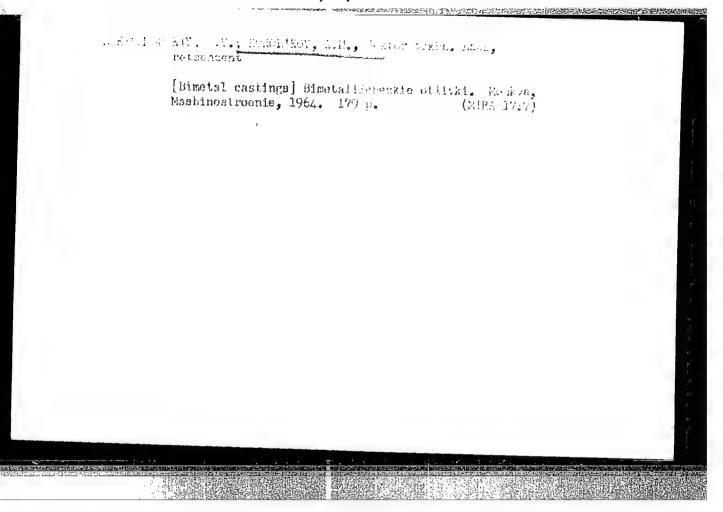
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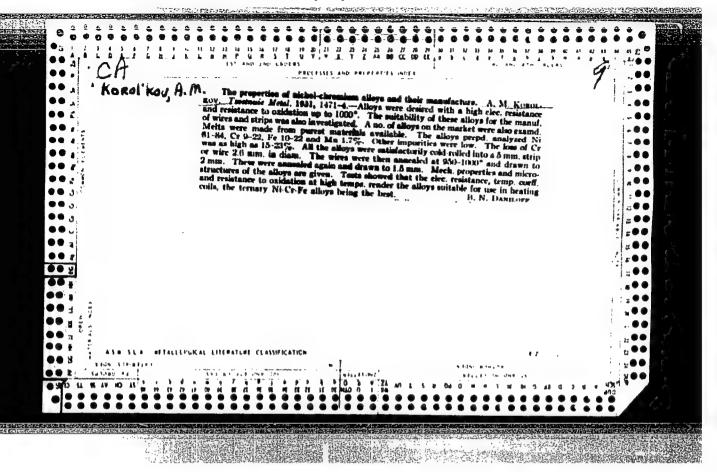
1. Zaveduyushchiy kafedroy ekonomiki i organizatsii proizvodstva Moskovskogo avtomobil'no-dorozhnogo instituta (for Bronshteyn).

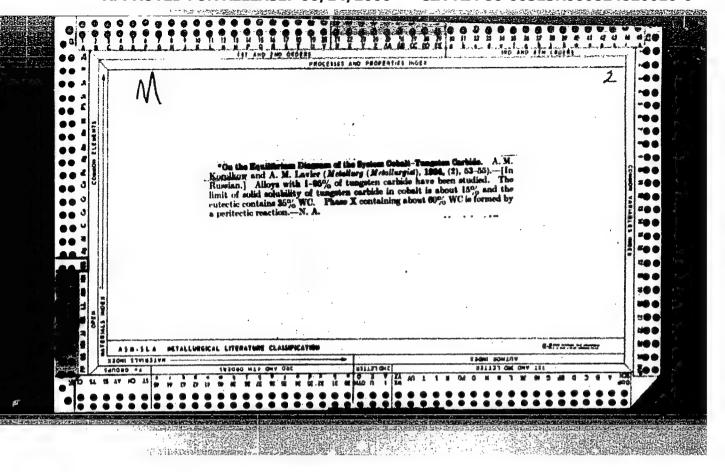
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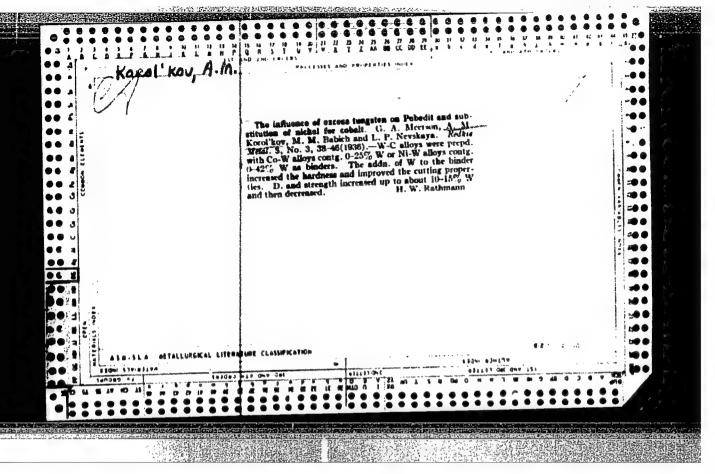
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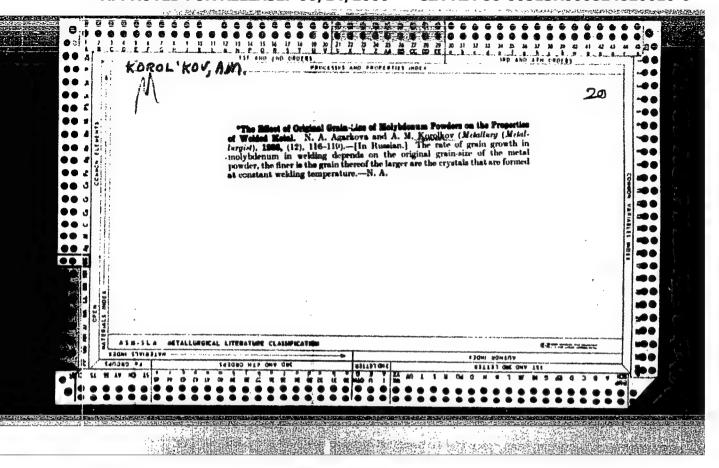
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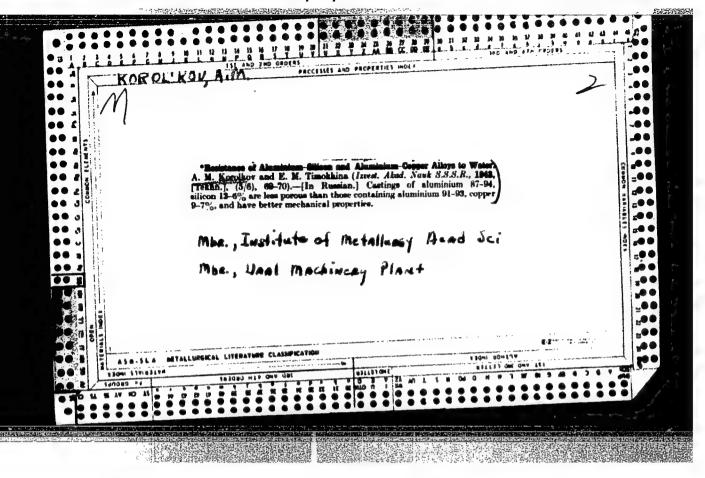


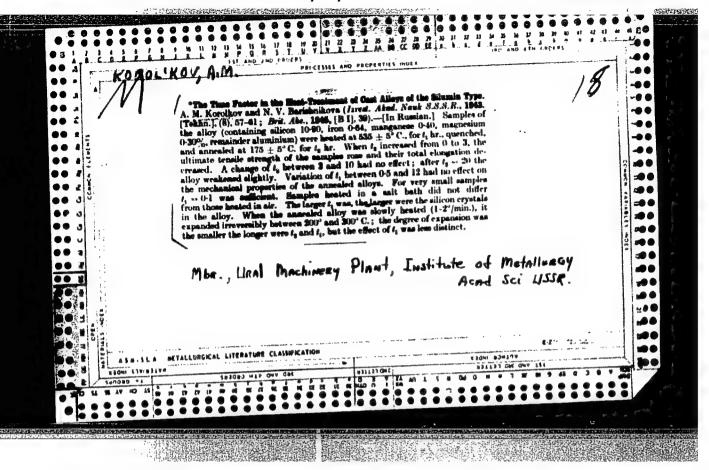


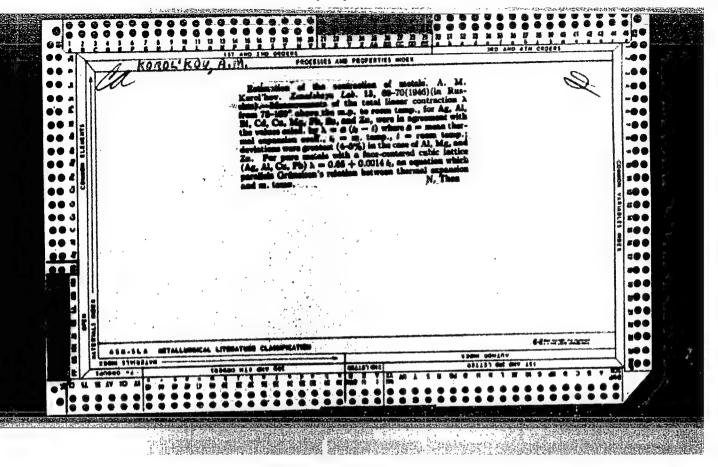


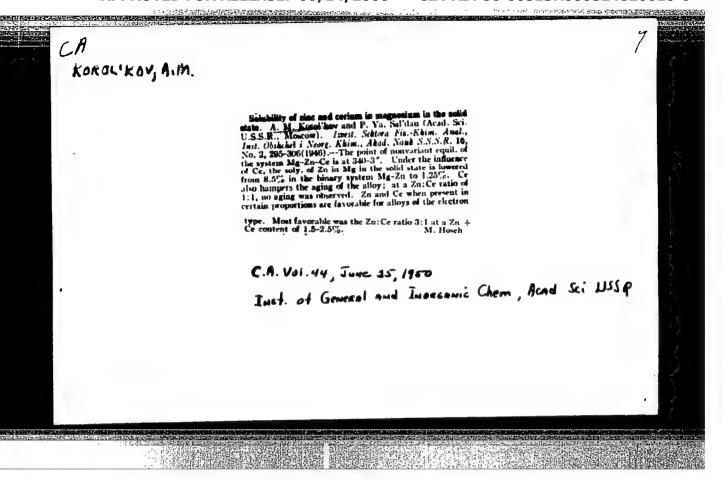


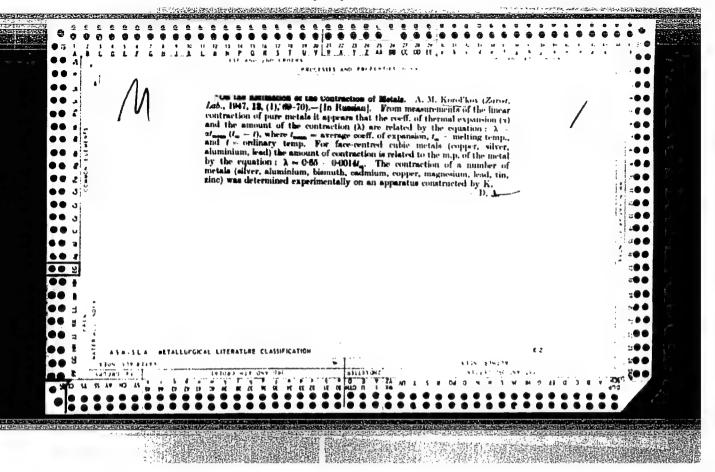


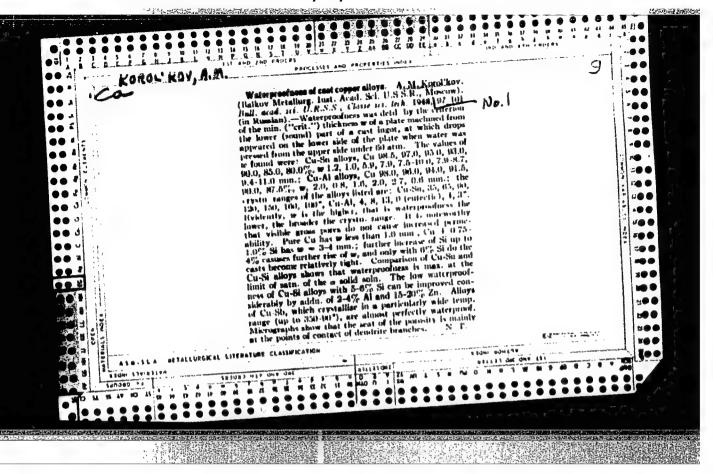


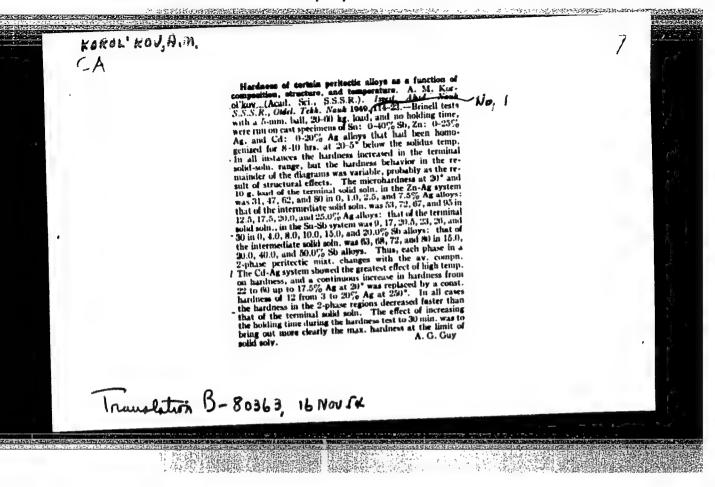


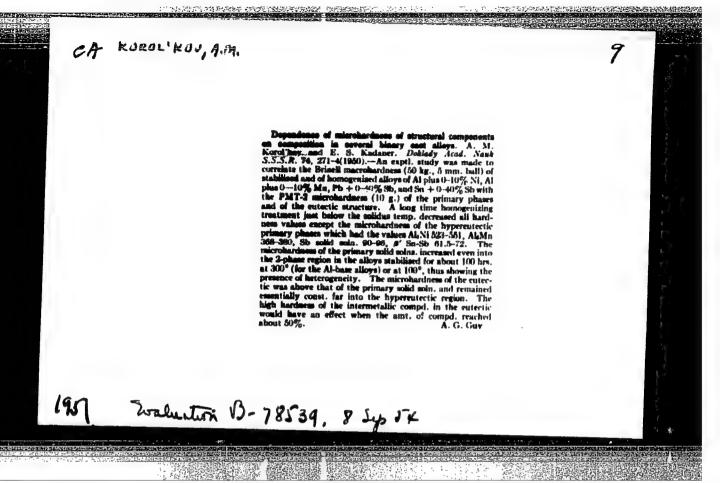












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"Application of the micro-hardness method in studying the structural components of non-ferrous alloys" pp. 127 of the monograph "Microhardness", Acad. Sci. U.S.S.R., 1951

Anomalous cases of linear shrinkage of alloys resulting from changes of their composition. Issl. splav. tsvet. met. no.1: 54-58 '55. (MLRA 9:10)

(Alloys--Metallography)

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SMIRYACIN, Aleksey Petrovich; KCROL'KOV, kandidat tekhnicheskikh nauk, retsenzent; POSTNIKOV, N.H., inzhenr, retsenzent; SHPICHINETSKIY, Ye.S., redaktor; KANAYEVA, O.M., redaktor izdatel'stva; EVEESON, I.M., tekhnicheskiy redaktor

[Industrial nonferrous metals and alloys] Promyshlennye tsvetnye metally i splavy. Isd. 2-e, perer. i dop. Noskva, Gos. nauchno-tekhn. isd-volit-ry po chernoi i tsvetnoi metallurgii, 1956. 559 p. (MIRA 9:7) (Honferrous metals)

Category : USSR/Atomic and Molecular Physics - Liquids

D-8

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3591

Author

: Korol'kov, A.M.

Kana Tana di Sa

Inst

: Institute of Metallurgy, Academy of Sciences USSR

Title

: Surface Tension of Aluminum and Its Alloys

Orig Pub : Izv. AN SSSR, Otd. tekhn. n., 1956, No 2, 35-42

Abstract : The surface tension of liquid Al and its alloys with other elements, the concentration of which varied from hundredths and thousandths of a percent to 20 - 40%, was measured by the method of maximum pressure in a bubble. The alloy temperatures exceeded the liquidus line by 50 - 80°. To prevent oxidation, the metals were molten under a flux (mixture of KCl and LiCl). The accuracy of the results was ± 2.5%. For Al (99.99% pure) = 860 ± 20 dyne/cm; Li, Ca, Mg, Sb, Sn, Pb, and Bi alloyed with Al have a high surface activity. The addition of Cu, Ag, Zn, Si, Cr, Mn, Fe and Ni hardly affect the value of of Al. For a constant concentration of the added metal, the surface tension of the solution diminishes with increasing size of its atom. Comparison of the " 6 vx. composition" curves with the diagrams of state of the series

Card

: 1/2

Category: USSR/Atomic and Molecular Physics - Liquids

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Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3591

shows that the surface-active components either have a limited solubility in the liquid state (Pb, Bi) of else form stable compounds (Li, Ca, Mg, Sb).

Card

: 2/2

CIA-RDP86-00513R000824820010-6" APPROVED FOR RELEASE: 06/14/2000

KOROL'KOV, Aleksey Mikhaylovich; GUDTSOV, N.T., akademik, otvetstvennyy redaktor [deceased]; RZHEZNIKOV, V.S., redaktor izdatatel'stva; POLESITSKAYA, S.M., tekhnicheskiy redaktor

[Contraction phenomena in alloys and the formation of cracks during solidification] Usadochnye iavleniis v splavakh i obrazovanie treshchin pri satverdevanii. Moskva, Isd-vo Akad.nauk SSSR, 1957.
70 p.

(Alloys)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820010-6"

"Dependence of the Properties, As-Cast, of Non-ferrous alloys on their Composition and the Type of the Diagram of State," Moscow, 1956 (Dissertation presented and approved for the degree of Dr. Tech. Sci.) Acad. Sci. USSR, Inst. Metallurgy im. A. A. Baykov.

KURUL! KUY, A. M.

"The Flow of Metals and Alloys in Conduits."

Hydrodynamics of Molten Metals (Gidrodinamika rasplavlennykh metalov; trudy pervogo soveshchaniia po teorii liteinykh protsessov. Moskva, Izd-vo Akad. nauk SSSR, 1958, 257 pp.

(Proceedings of the First Conference on the Theory of Casting Processes)

Institute of Metallurgy, Academy of Sciences USSR imeni A. A. Baykov

28(1)

PHASE I BOOK EXPLOITATION

SOV/2156

24

Soveshchaniye po kompleksnoy mekhanizatsii i avtomatizatsii tekhnologicheskikh protsessov. 2nd, 1956.

Avtomatizatsiya mashinostroitel nykh protsessov; /trudy soveshchaniya/, tom. 1: Goryachaya obrabotka metallov (Automation of Machine-Building Processes; Proceedings of the Conference on Over-All Mechanization and Automation of Technological Process, Vol 1: Hot Metal-Forming) Moscow, 1959. 394 p. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut machinovedeniya. Komissiya po tekhnologii mashinostroyeniya.

Resp. Ed.: V.I. Dikushin, Academician: Compiler: V.M. Raskatov: Ed. of Publishing House; V.A. Kotov; Tech. Ed.: I.F. Kuz'min.

PURPOSE: The book is intended for mechanical engineers and metallurgists.

Card 1/8

# APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820010-6 Automation of Machine-Building Processes (Cont.) SOV/2156

COVERAGE: The transactions of the Second Conference on the Over-All Mechanization and Automation of Industrial Processes, September 25-29, 1956, have been published in three volumes. This book, Vol. I, contains articles under the general title, Hot Working of Metals. The investigations described in the book were conducted by the Sections for Automation and Hot Working of Metals, under the direction of the following scientists: casting - P.N. Aksenov, D.P. Ivanov and G.M. Orlov; forming - A.I. Tselikov, B.I. Tomlenov and V.T. Meshcherin; welding - G.A. Nikolayev, B.I. Frolov and G.A. Maslov. There are 183 references: 142 Soviet, 34 English, 6 German, and 1 French.

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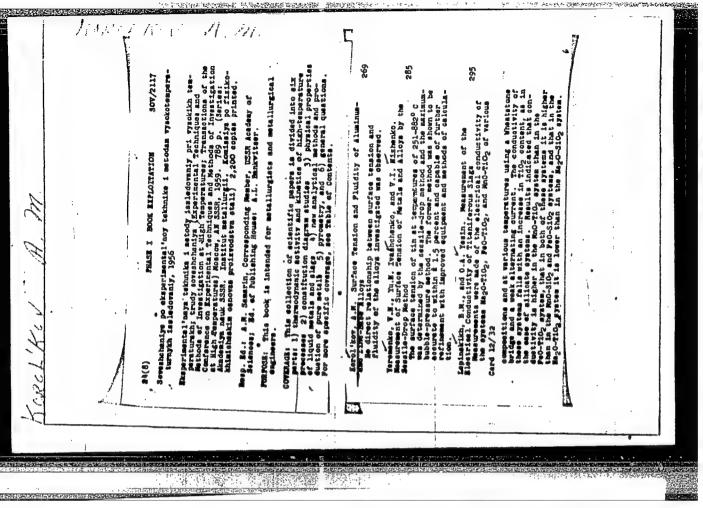
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Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1961, No. 2, p. 3, # 2G30

AUTHOR:

Korol'kov, A. M.

TITLE:

The Dependence of the Casting Properties of Non-Ferrous Metal Alloys on Their Composition and the Pattern of the Alloy Phase Diagrams

V sb.: "Puti uluchsheniya kachestva otlivok". Gorkiy, 1959, pp. 175-PERIODICAL:

Basing on the investigation of the set of casting properties of alloys, the author shows that the choice of the optimum alloy composition is of the most TEXT: importance among the numerous factors affecting the cast material quality. Particularly, it is emphasized that a quite regular correlation exists between the alloy composition, i. e., the position of the alloy in the phase diagrams, and the manifestation and number of the shrink holes. - There are 38 figures and 58 references.

Yu. Sorokin Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

CIA-RDP86-00513R000824820010-APPROVED FOR RELEASE: 06/14/2000 80V/180-59-5-19/37

AUTHOR:

Korolikov. A.M. (Moscow)

TITLE:

Viscosity of Liquid Notals

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 5, pp 123-126 (USSR)

ABSTRACT: Many viscosity equations are based on the assumption of a quasi-crystalline state in the liquid, and this concept agrees well with typical viscosity-vs-temperature curves. The author gives results of determinations of the viscosity of several metals and the relation of their kinematic viscosity to certain other physical properties. He used a vacuum viscometer of the oscillating-crucible type (damping of oscillations when the crucible is filled with liquid metal). The design of the instrument and method of calculation have been described by others (Refs 4, 7); latest published density values for liquid V.G. Yudin did the experimental work. metals were used. The author's and published values of absolute and kinematic viscosities for six metals at temperatures close to their melting points are given in Table 1 and the kinematic viscosities are shown as functions of Card temperature in Fig 1. These curves agree with some 1/2

# PHASE I BOOK EXPLOITATION SUV/4378

#### Korol'kov, A.M.

Liteynyye svoystva metallov i splavov (Casting Properties of Metals and Alloys)
Moseow, Izd-vo AN SSSR, 1960. 195 p. Errata slip inserted. 3,500 copies
printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A.A. Baykova.

Resp. Ed.: A.M. Samarin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: A.M. Chernov; Tech. Ed.: G.A. Astaf yeva.

PURPOSE: This book is intended for scientific workers, factory laboratory workers, and process engineers in foundries.

COVERAGE: The book contains results of experimental and theoretical investigations for establishing regularity patterns of changes in the casting properties of nonferrous and light metal alloys, depending on their composition and type of

Card 1/6

### "APPROVED FOR RELEASE: 06/14/2000

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PHASE I BOOK EXPLOITATION

SOV/4343

Soveshchaniye po teorii liteynykh protsessov, 3d

Usadochnyye protsessy v metallakh; trudy soveshchaniya (Shrinkage Processes in Metals; Transactions of the Third Conference on the Theory of Casting Processes) Moscow, AN SSSR, 1960. 281 p. Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnologii mashinostroyeniya.

Resp. Ed.: B.B. Gulyayev, Doctor of Technical Sciences, Professor; Ed. of Publishing House: V.S. Rzheznikov; Tech. Ed.: T.V. Polyakova.

PURPOSE: This collection of articles is intended for scientific workers, engineers, technicians of scientific research institutes and industrial plants, and for faculty members of schools of higher education.

COVERAGE: The collection contains technical papers presented at the Third Conference on the Theory of Casting Processes, organized by Liteynaya sektsiya Komissii po tekhnologii mashinostroyeniya Instituta mashinovedeniya AN SSSR (Casting Section of the Commission for Machine-Building Technology of the Institute of Science of Machines, Academy of Sciences USSR) and by Institut metallurgii imeni Baykova Card 1/6

#### APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820010-6

Shrinkage Processes (Cont.)

SOV/4343

AN SSSR (Institute of Metallurgy imeni A.A. Baykov, Academy of Sciences USSR). The most serious defects in castings, ingots, and welds as a result of metal shrinkage are reviewed. Factors contributing to the formation of shrinkage cavities, porosity, cracks, fissures, distortion, and internal stresses are analyzed along with measures taken to prevent and remedy them. The hydrodynamics of molten metals and the process of solidification of metals are discussed. Also presented are resolutions adopted at the Conference with regard to the problem of shrinkage in metals. No personalities are mentioned. Most papers are accompanied by bibliographic references, the majority of which are Soviet.

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#### 1. SHRINKAGE CAVITIES

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S/081/60/000/020/003/014 A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 20, p. 83, # 80426

AUTHORS:

Korol'kov, A.M., Bychkova, A.A.

TITLE:

Surface Tension of Metals and Alloys

PERIODICAL:

V sb.: Issled, splavov tsvetn. metallov, 2. Moscow, AN SSSR, 1960,

pp. 122-134

TEXT: The method of maximum pressure in an Ar vial was used to measure with an accuracy of 2-3% the 6-values of a series of pure (99.99% for Al and Sb) non-ferrous metals at a temperature elevated by 50-60°C beyond the melting point. The results obtained are: Al 860, Bi 380, Ga 725, Mg 515, JSn 526, Fb 410, Sb 395 and 72n 750 dyne/cm. The 6-composition dependence was studied for a series of binary and ternary Al- and Zn-base alloys.

S.Z.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

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#### S/180/60/000/005/023/033 E021/E106

AUTHORS: Korol'kov, A.M., and Pronin, N.A. (Moscow)
TITLE: The Structure of Supercooled Eutectic Alloys

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, No.5, pp.181-185

TEXT: The aim of the investigation was to establish the controlling factors in the appearance of a spheroidal structure on the fast-cooled surfaces of aluminium-silicon and aluminium-copper alloys. Samples of various compositions were poured on to a polished cast iron plate heated to various temperatures. The specimens were 15-30 mm in diameter and 5-10 mm thick. The underside surface was then examined under the microscope without polishing. The temperature of the liquid alloy was 100 ±5 °C above the liquidus of the alloy. A typical spheroidal structure is shown (Fig.1). The results showed that in both alloy systems, the alloys near to the eutectic compositions gave a spheroidal structure with the least drop in temperature from the liquid alloy to the cooling surface. Thus for the eutectic aluminium-silicon alloys this difference was 27 °C and for the eutectic Card 1/2

S/180/60/000/005/023/033 E021/E106

The Structure of Supercooled Eutectic Alloys

aluminium-copper alloys it was 148 °C. With smaller temperature drops, the spheroidal structure was not found. As the alloy composition moves away from the eutectic, higher degrees of supercooling are required to produce the spheroidal structure. The aluminium-silicon alloys supercooled more easily than the aluminium-copper alloys. This was explained by the fact that the aluminium-silicon alloys were more easily modified. There are 4 figures, 2 tables and 7 Soviet references.

SUBMITTED: March 2, 1960

Cardi 2/2

8/123/61/000/006/017/020 A004/A104

AUTHOR:

Korol kov, A. M.

TITLE:

Shrinkage processes in alloys in connection with their phase diagram

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 6, 1961, 2, abstract 6012 (V sb. "Usadochn. protsessy v metallakh". Moscow, AN SSSR,

1960, 41-49)

The author investigates the regularities of changes of casting TEXT: shrinkage tendency to crystallization cracks and distribution of shrinkage porosity if the composition of foundry alloys is changed. It was found that shrinkage phenomena are directly connected with the kind of phase diagram of the alloys: alloys solidifying within a great temperature range under difficult shrinkage conditions tend to form hot cracks, while a difficult shrinkage of pure metals and alloys with a narrow temperature range of solidification is realized in the form of plastic deformation. It is shown that in alloys solidifying at constant temperatures centered shrinkage cavities originate, while alloys with a wide temperature range show a scattered shrinkage porosity. Yu. Stepanov

[Abstractor's note: Complete translation]

Card 1/1

Connection between metal and alloy properties in solid and liquid states. Izv. AN. SSSR. Otd. tekh. nauk. Met. i topl. no.3:146-147 My-Je '61. (MIRA 14:7) (Liquid metals) (Alloys)

s/180/61/000/006/009/020 E021/E135

(Moscow) Korol'kov, A.M., and Igumnova, A.A. The surface tension of intermetallic compounds AUTHORS 5 PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhniches-

kikh nauk. Metallurgiya i toplivo, no.6, 1961, 95-99 The surface tension of alloy systems with phase

diagrams forming chemical compounds was investigated. The initial materials had the following purity: A1 - 99.99; Bi - 99.98; Cd - 99.95; Mg - 99.91 (0.06 Fe + Si); Pb - 99.99; Sb - 99.15 (0.7% Pb); Sn - 99.9; Te - 99.4 (0.25 Pb, 0.16 R203); Zn - 99.94-99.99%. The results of the surface tension measurements are shown in the table. The surface tension of the intermetallic compounds is usually less than that of the components (e.g. Mg2Sn) or equal to that of the component with the lower value (e.g. Sb2Te3). The composition - surface tension diagram has either a minimum or a point of inflexion at the composition corresponding to the compound. This indicates that compounds are surface active in relation to both the components and these compounds are of the normal valency type Mg2Me, or are surface Card 1/1/2

#### "APPROVED FOR RELEASE: 06/14/2000

#### CIA-RDP86-00513R000824820010-6

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5/180/62/000/001/006/014 E039/E520

AUTHORS:

Korol'kov, A.M. and Shashkov, D.P. (Moscow)

TITLE:

The electrical resistivity of some alloys in the

liquid state

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Metallurgiya i toplivo,

no.1, 1962, 84-88

While the structure of metals and alloys and their TEXT: properties in the solid state have been studied extensively, the properties of liquid metal solutions have not. It is known from theory that in both the liquid and solid state short range order exists. Pure metals show an increase in electrical resistivity on heating and a marked jump on melting. The latter is due to the breakdown of the crystal lattice with a consequent loss of long range order. This paper describes the investigation of a number of alloys in the liquid state for which structural diagrams indicate both the absence of any appreciable mutual solubility of the components in the solid state (Al-Sn) as well as the existence of such solubility (Al-Cu; Pb-Sn; Al-Si; Al-Ge; Card 1/2

The electrical resistivity of ... S/180/62/000/001/006/014 E039/E520

Al-Zn; Al-Ag and Bi-Sn alloys). The electrical resistivities,  $\rho$ , were measured by an electrodeless method. In the Al-Sn alloy the composition  $\sim 
ho$  diagram obeys the additive law, as for eutectics in the solid state. Some alloys show a clear correlation between composition  $\sim\!\!
ho$  curves and their structural diagrams. For example, in the alloy Al-Cu the maximum which occurs on the  $750\,^{\circ}C$ isotherm corresponds to the limit of solubility of copper in aluminium. Similar phenomena have also been observed for Pb-Sn alloys. The jump in the resistivity during fusion of alloys which crystallize within a large temperature interval is observed at temperatures at which the liquid-solid mixture contains at least 50% of the liquid phase which corresponds to the continuous nature of the mixture. No jump at all was observed in the resistivity during fusion of some eutectic alloys, whose components have conductivity jumps of opposite signs during fusion (Bi-Sn; Bi-Pb). There are 5 figures.

SUBMITTED: May 18, 1961

Card 2/2

S/137/62/000/005/001/150 A006/A101

127540

AUTHORS:

Korol kov, A. M., Yudin, V. G.

TITLE:

On the connection between viscosity of liquid metals with their

atomic volume and entropy

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 7, abstract 5A43 (V sb. "Fiz.-khim. osnovy proiz-va stali", Moscow, AN SSSR, 1961,

347-353)

The value of kinematic viscosity  $\mathcal V$  of a number of metals near the TEXT: melting point can be established from equation V = K(1/V), where K is a constant, equal to 4 - 5, V is the specific volume. Values V of a number of metals. calculated from this equation, are in a satisfactory agreement with experimental data. In such a manner, the resistance to displacement of some liquid metal particles in respect to adjacent ones, is the lesser, the higher the distances between their centers. Alkaline metals and Mg are exceptions: their experimental Y values exceed the calculated ones: this is due to the structure or greater oxidizability of these metals which cannot be overcome during the experiments. It is shown that the higher V, the lower the magnitude of entropy, i.e.

Card 1/2

#### APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820010-6

On the connection between viscosity ...

8/137/62/000/005/001/150 A006/A101.

the weaker the disordering of atoms during heating. It is experimentally shown that on composition-viscosity diagrams for systems Al-Cu, Al-Si, Al-Fe, Al-Mn, and Zn-Sn, a V minimum is characteristic for the eutectic point. It is assumed that the reduced V value for eutectics is connected with the prevalence of bonds between similar, but not between dissimilar atoms. It is possible that the atomic volume of eutectics is greater than that of adjacent alloys, due to the minimum melting point of eutectics. This phenomenon is also explained by changes in entropy, since entropy values of melting eutectics will allways be higher than those of components and adjacent alleys, due to the minimum melting point of eutectics.

P. Arsent'yev

[Abstracter's note: Complete translation]

KOROL'KOV, A.M.; SHASHKOV, D.P.

Electric conductivity of certain liquid metals and alloys. Issl. splay. tavet. met. no.3:126-135 '62. (MIRA 15:8) (Liquid metals—Electric properties) (Alloys—Electric properties)

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5/806/62/000/003/011/018

AUTHORS: Korol'kov, A. M., Shashkov, D. P.

TITLE: Electrical conductivity of some liquid metals and alloys.

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Issledovaniye splavov

tsvetnykh metallov. no.3. 1962, 126-135.

Following a thorough survey of existing literature on the phenomenon of TEXT: electrical conductivity in solid and liquid metals and the various structural and other factors affecting it, the paper describes the results of an experimental investigation of binary alloys of a eutectic type based on Al and Pb (composition and purity of components tabulated). The investigation was conducted by A. R. Regel's rotatingmagnetic-field method (ZhTF, v.18, no.12, 1948); its accuracy is ±5%. A relatively simple variation of specific resistance (SR) versus composition, with a shallow depression in the vicinity of the eutectic point, obtains with those Al alloys, e.g., Al-Si and Al-Ge, in which there is no formation of chemical compounds. Si reduces the conductivity of liquid Al significantly near the eutectic point. In Al-Cu alloys, in which an Al-based solid solution and an intermetallic Al<sub>2</sub>Cu compound exists, the SR increases with an addition of Cu to the Al, attains a maximum at 5.7% Cu, and, with Cu more than 10%, drops to less than the SR of pure Al. The Al-Ag alloys, both at 800°C and at (t<sub>1</sub> + 100°), exhibit a unique drop in SR with the addition of Ag. Ag-Zn alloys have a slightly depressed SR with 10% Zn, but the SR rises again Ag-Zn alloys have a Card 1/2

Electrical conductivity of some liquid metals ...

S/806/62/000/003/011/018

with increasing Zn content until, with 40% Zn, the SR of pure Al is equaled. Thus it appears that various alloys retain in different measure their crystalline lattice even during fusion, so that a varying measure of weakening of the mobility of the current carriers obtains. This is confirmed by the high value of the temperature coefficient of the SR of liquid Al-Cu alloys corresponding to the solid-solution concentration (up to 5.7% Cu), some 2.5-2.7 times greater than for other alloys. The investigation further reveals that the SR of alloys that solidify over a large T interval have their SR jump neither at the solidus nor at the liquidus T, but at T's that lie on a line about midway within that interval, at points at which, apparently, the liquid isolates the crystals from direct mutual contact; this phenomenon was observed on Pb-Sn, Al-Cu, Bi-Pb, and other alloys. Another significant observation is that, in Bi-Pb and Bi-Sn lying between the eutectic point and pure Bi, in both the solid and liquid states the SR changes with T in the same manner as does pure Bi, but the increase in SR with T up to the m.p. decreases with an increase in Pb and Sn in the alloy. The magnitude of the SR, also, decreases until there is no more SR jump left at the eutectic point. Thus, the alloying elements lead to a loss of the inherent properties of the Bi. There are 7 figures, 2 tables, and 17 references (14 Russian-language Soviet, 1 Russian translation of the "Encyclopedia of Metal Physics," 1937, and 2 German).

ASSOCIATION: None given.

Card 2/2

S/279/63/000/001/008/023 E039/E451

AUTHORS: Korol'kov, A.M., Shashkov, D.P. (Moscow)

TITLE: The temperature dependence of the electrical

conductivity of some alloys

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye

tekhnicheskikh nauk. Metallurgiya i gornoye delo.

no.1, 1963, 105-108

TEXT: A series of binary and tertiary alloys was examined to determine the temperatures and compositions of alloys at which a sudden increase in conductivity occured on melting, in comparison with a further series of alloys which did not show a sudden increase. The observations confirm that the conductivity jump occurs in eutectic alloys (e.g. Al - Zn) when the amounts of solid and liquid phases are equal, that is when the crystals lose contact with each other and are isolated by liquid. Similar conductivity jumps are observed in eutectic alloys such as Al-Si, Al-Cu, Cd-Bi etc and also for continuous solid solution alloys (Sb-Bi system). Alloys with concentrations close to the eutectic also show a conductivity jump at the eutectic temperature. This effect is absent in systems which include "semimetals" (Bi, Sb, Ga) Card 1/2

The temperature dependence ...

S/279/63/000/001/008/023 E039/E451

e.g. Bi-Cd, Bi-In, Pb-Sb alloys. In this case the conductivity jump disappears at eutectic concentrations. Similar behavior is observed for tertiary alloys containing a "semimetal" component (Pb-Sn-Bi, Pb-Sn-Sb). No conductivity jump is present for eutectic alloys with strongly chemically reacting components (Cu-Sb, Mg-Ga). A possible reason for these anomalous changes in conductivity may be a mutual compensation of current carriers on melting. The process is evidently also connected with the complex changes of volume for alloys composed of components with opposite volume changes on melting. These results are of definite interest for developing a theory of alloys and a physical theory for the liquid — solid transition. There are 3 figures and 1 table.

SUBMITTED: September 24, 1962

Card 2/2